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Ramakrishnan, Jagannathan Dr; Govindan, Ravi Sankar Dr; and Kotti, Thavamani Dr, "PRIMARY JOURNALS ANALYSIS IN THE FIELD OF PSYCHIATRIC NURSING LITERATURE: A STUDY BASED ON BRADFORD'S LAW OF SCATTERING" (2020). *Library Philosophy and Practice (e-journal)*. 3914.

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PRIMARY JOURNALS ANALYSIS IN THE FIELD OF PSYCHIATRIC NURSING LITERATURE: A STUDY BASED ON BRADFORD'S LAW OF SCATTERING

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Presents a bibliometric analysis of the literature in the field of Psychiatric Nursing as indexed the MEDLINE data covered in the Pubmed for the period 1999 to 2018. It is noticed that a total of 15279 records on the literature of Psychiatric Nursing are covered. It is also noticed that the maximum number of records was published during the year 2018, followed by the years 2016 and 2015. It was found that Journal Article covered the maximum number of records followed by Research Support, Non-U.S. Gov't, Review, Editorial, Validation Studies etc. It is seen that 7 primary journals grouped in zone-1 covered one-third of the total number of journal articles. Similarly, the second zone comprises 70 journals and 1104 journals grouped in the third zone. In zone-1 & 2; out of 77 journals, 24 frequently cited journals are published in England, this is followed by the countries i.e. United States (16 journals), Australia (8 journals), France (5 journals), Brazil (4 journals), Germany (4 journals), etc.

Keywords: Psychiatric Nursing, Bradford's Law and Primary journals

INTRODUCTION

Bibliometric techniques are being used for a variety of purposes like selection of journals for libraries. In this paper an attempt has been made to bring the primary journals in the field of Psychiatric Nursing using Bradford's Law of Scattering

REVIEW OF LITERATURE

Several studies on mapping have analyzed allied health journal citations to determine lists of primary journals in their fields.¹⁻¹¹, Ramesh Babu and Ramakrishnan¹² studied the Indian contributions to the field of Hepatitis. Ramakrishnan and Thavamani¹³ studied on Leptospirosis. The review of literature revealed that so far no quantitative study on "Psychiatric Nursing" was conducted. Hence the present study.

PSYCHIATRIC NURSING:

Psychiatric nursing is the appointed position of a nurse that specialises in mental health, and cares for people of all ages experiencing mental illnesses or distress. Nurses in this area receive specific training in psychological therapies, building a therapeutic alliance, dealing with challenging behaviour, and the administration of psychiatric medication.¹⁴

OBJECTIVES OF THE STUDY

The Objectives of this study are:

1. To study the Number of literature published in the field of Psychiatric Nursing.
2. To identify the primary journals and their countries in the field of Psychiatric Nursing Literature.

METHODOLOGY

The records published during the year 1999 to 2018 in the field of Psychiatric Nursing in the MEDLINE data which are covered in the Pubmed were searched and bibliographic details were collected. The retrieved records were converted into FoxPro and loaded in SPSS for the purpose of analysis. The keyword 'Psychiatric Nursing' has been used for extracting the number of records available in the above said database. The data thus collected from the source database on the literary production of 'Psychiatric Nursing' has been analysed by using bibliometric technique such as Bradford's Law of Scattering.¹⁵ This study is limited to a period of twenty years from the year 1999 to 2018 in the field of Psychiatric Nursing.

QUANTUM OF PSYCHIATRIC NURSING RESEARCH PRODUCTIVITY

The research output on the literature of Psychiatric Nursing in the database is presented in Table-1. It is noticed that a total of 15279 records on the literature of Psychiatric Nursing are covered. It is also noticed that the maximum number of records i.e. 1147 was published during the year 2018, followed by 1068 in 2016 and 1061 in 2015. On the whole, it is observed that from the year 1999 onwards there is a gradual increase in Psychiatric Nursing research productivity every year except the year 2017 i.e. 988 records. (Fig.1)

Table-1: Number of Literature published in Psychiatric Nursing

S.No.	Year	Frequency	%
1.	1999	663	4.34
2.	2000	636	4.16
3.	2001	605	3.96
4.	2002	498	3.26
5.	2003	563	3.68
6.	2004	653	4.27
7.	2005	723	4.73
8.	2006	736	4.82
9.	2007	695	4.55

10.	2008	717	4.69
11.	2009	725	4.75
12.	2010	750	4.91
13.	2011	657	4.30
14.	2012	701	4.59
15.	2013	772	5.05
16.	2014	921	6.03
17.	2015	1061	6.94
18.	2016	1068	6.99
19.	2017	988	6.47
20.	2018	1147	7.51
Total		15279	100.00

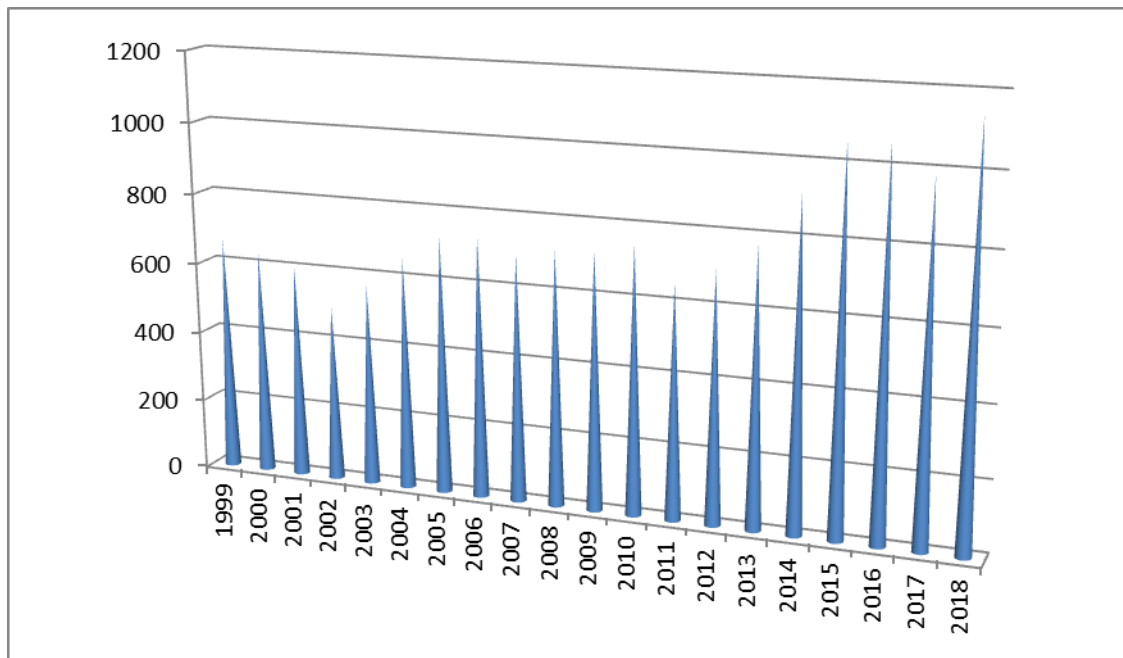


Figure-1 Number of Literature published in 'Psychiatric Nursing' Year- wise

PUBLICATION TYPES DISTRIBUTION OF PSYCHIATRIC NURSING RESEARCH

Table-2 reveals the distribution of the ‘Psychiatric Nursing’ research output according to various publication types of MEDLINE. It was found that Journal Article (8498 Records), Research Support, Non-U.S. Gov't (2545 Records), Review (1603 Records), Editorial (474 Records), Validation Studies (293 Records), Research Support, N.I.H., Extramural (232 Records), Research Support, U.S. Gov't, P.H.S. (224 Records), Randomized Controlled Trial (205 Records), Systematic Review (166 Records), Letter (153 Records), News (148 Records), Interview (128 Records), Multicenter Study (125 Records), Research Support, U.S. Gov't, Non-P.H.S. (84 Records), Comment (76 Records), Introductory Journal Article (47 Records), Observational Study (46 Records), Portrait (45 Records), Legal Case (26 Records), Bibliography (23 Records), Personal Narrative (22 Records), Historical Article (20 Records), Congress (19 Records), Case Reports (15 Records), Published Erratum (11 Records), Meta-Analysis (10 Records), Practice Guideline (8 Records), Overall (7 Records), Twin Study (7 Records), Book (6 Records), Research Support, N.I.H., Intramural (3 Records), Video-Audio Media (3 Records), Retracted Publication (2 Records), Address (1 Record), Book Chapter (1 Record), English Abstract (1 Record), Newspaper Article (1 Record), and Pragmatic Clinical Trial (1 Record). (Fig.2)

Table 2: Publication Types of Psychiatric Nursing Research

S.N	Pub. Type	No. of records	%
1.	Journal Article	8498	55.62
2.	Research Support, Non-U.S. Gov't	2545	16.66
3.	Review	1603	10.49
4.	Editorial	474	3.10
5.	Validation Studies	293	1.92
6.	Research Support, N.I.H., Extramural	232	1.52
7.	Research Support, U.S. Gov't, P.H.S.	224	1.47
8.	Randomized Controlled Trial	205	1.34

9.	Systematic Review	166	1.09
10.	Letter	153	1.00
11.	News	148	0.97
12.	Interview	128	0.84
13.	Multicenter Study	125	0.82
14.	Research Support, U.S. Gov't, Non-P.H.S.	84	0.55
15.	Comment	76	0.50
16.	Introductory Journal Article	47	0.31
17.	Observational Study	46	0.30
18.	Portrait	45	0.29
19.	Legal Case	26	0.17
20.	Bibliography	23	0.15
21.	Personal Narrative	22	0.14
22.	Historical Article	20	0.13
23.	Congress	19	0.12
24.	Case Reports	15	0.10
25.	Published Erratum	11	0.07
26.	Meta-Analysis	10	0.07
27.	Practice Guideline	8	0.05
28.	Overall	7	0.05
29.	Twin Study	7	0.05
30.	Book	6	0.04
31.	Research Support, N.I.H., Intramural	3	0.02
32.	Video-Audio Media	3	0.02
33.	Retracted Publication	2	0.01
34.	Address	1	0.01
35.	Book Chapter	1	0.01
36.	English Abstract	1	0.01
37.	Newspaper Article	1	0.01
38.	Pragmatic Clinical Trial	1	0.01
Total		15279	100.00

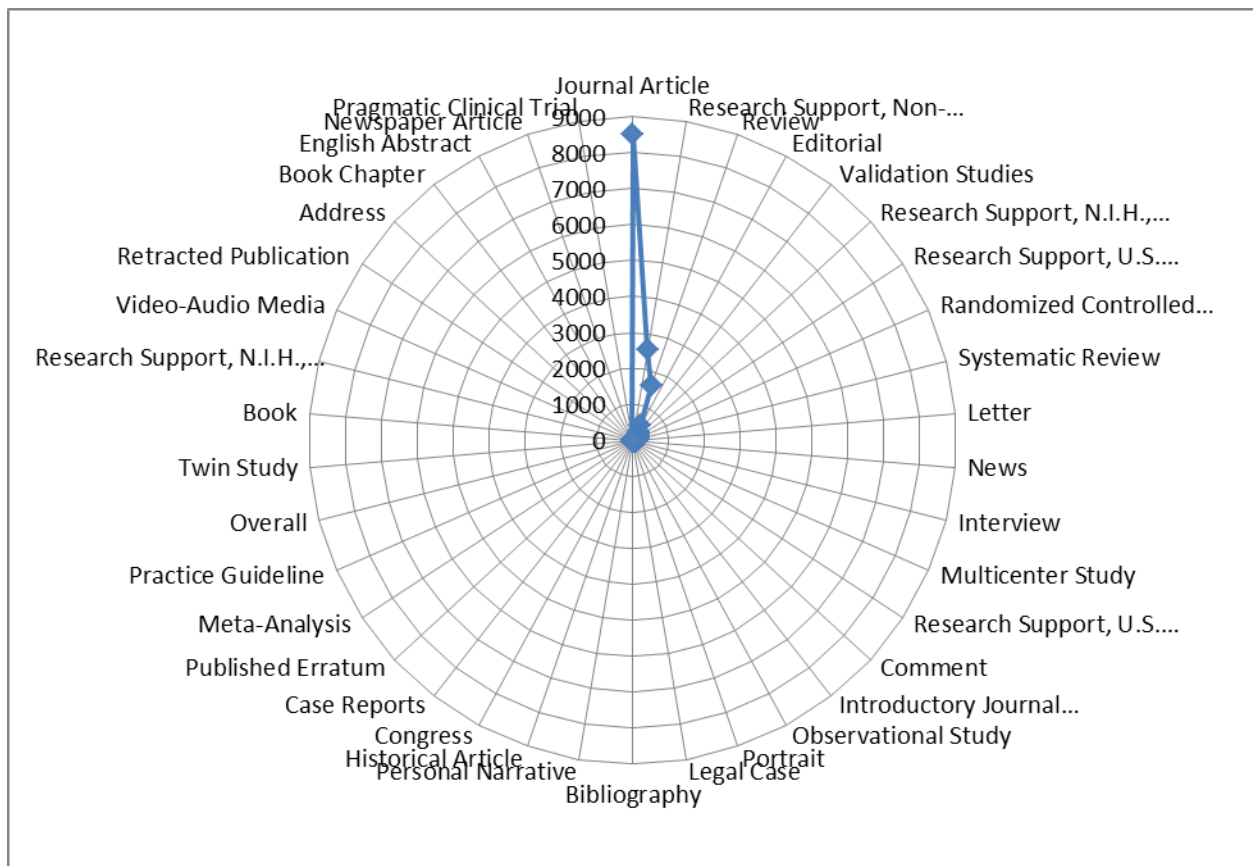


Figure 2 Publication Types of Psychiatric Nursing Research

DISTRIBUTION OF JOURNALS IN PSYCHIATRIC NURSING BASED ON BRADFORD LAW OF SCATTERING

As per the Bradford Law, 8498 journal articles are selected for this study. The journals are grouped into three zones producing a similar number of articles. The distribution of journal by zone wise is given in Table-3. It is seen that 7 primary journals grouped in zone 1 published 2861 journal articles accounting for one-third of the total output. Similarly, the second zone comprises 70 journals published 2842 journal articles and 1104 journals grouped in the third zone published 2795 journal articles. Bradford's Law states that the number of periodicals in zones, the first zone and the second zone will be $1: n: n^2$ Accordingly, the relationship is the

zone will be 7: 70: 1104. In comparison with the data in Table-3, it is clear that the trend of research publication confirms the implication of Bradford's Law (Figure 3).

Table-3: Distribution by Zone of cited journals and papers in Psychiatric Nursing

Zone	No. of Journals		No. of Journal Articles	
	No.	(%)	No.	(%)
Zone 1	7	0.59	2861	33.67
Zone 2	70	5.93	2842	33.44
Zone 3	1104	93.48	2795	32.89
Total	1181	100.00	8498	100.00

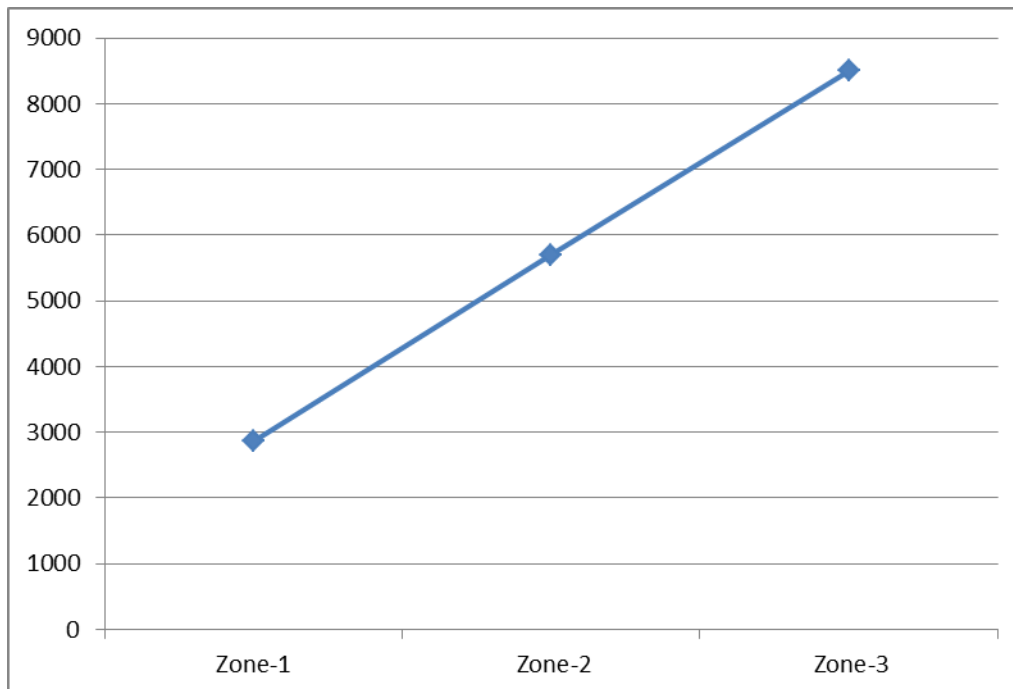


Figure-3 Distributions of Journals by Zones

COUNTRY WISE COVERAGE OF ZONE-1 JOURNALS IN PSYCHIATRIC NURSING

Table-4 shows that the most frequently cited journals are published in England with 42.86%. Of the 7 journals in zone-1, 3 journals are published in England and followed by United States (2 journals), Australia (1 journal) and France (1 journal). (Fig.-4)

Table-4: Country wise coverage of Zone-1 journals in Psychiatric Nursing

S. No.	Country	Frequency	%
1.	England	3	42.86
2.	United States	2	28.57
3.	Australia	1	14.29
4.	France	1	14.29
Total		7	100.00

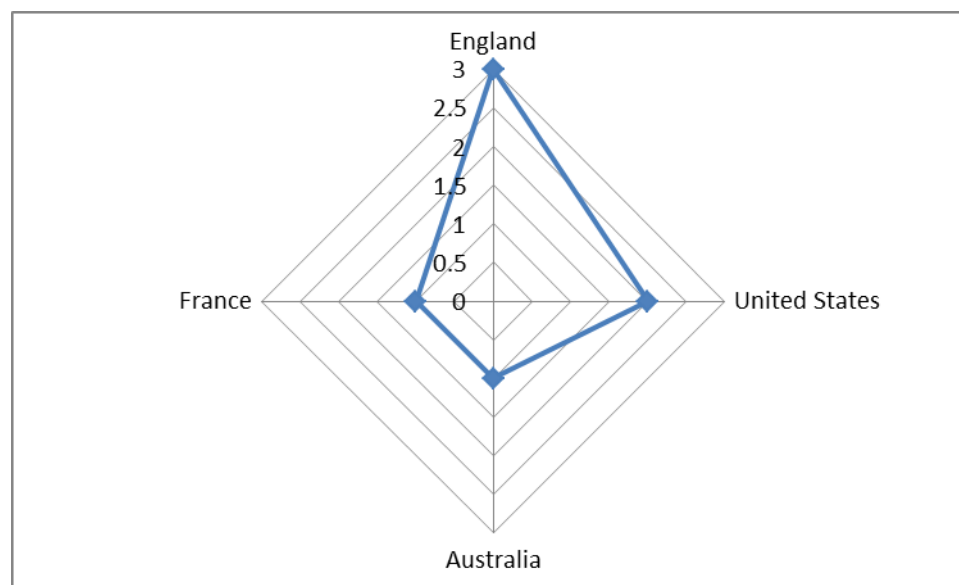


Figure-4 Country-wise coverage of Zone-1 journals in Psychiatric Nursing

COUNTRY WISE COVERAGE OF ZONE-2 JOURNALS IN PSYCHIATRIC NURSING

Table-5 shows that in zone-2 ; out of 70 journals, 21 frequently cited journals are published in England, this is followed by the countries i.e. United States (14 journals), Australia (7 journals), Brazil (4 journals), France (4 journals), Germany (4 journals), Iran (3 journals), China (Republic : 1949-) (2 journals), New Zealand (2 journals), Switzerland (2 journals),

Canada (1 journal), Ireland (1 journal), Japan (1 journal), Netherlands (1 journal), Scotland (1 journal), South Africa (1 journal), and Sweden (1 journal). (Fig.-5)

Table-5: Country-wise coverage of Zone-2 journals in Psychiatric Nursing

S. No.	Country	Frequency	%
1.	England	21	30.00
2.	United States	14	20.00
3.	Australia	7	10.00
4.	Brazil	4	5.71
5.	France	4	5.71
6.	Germany	4	5.71
7.	Iran	3	4.29
8.	China (Republic : 1949-)	2	2.86
9.	New Zealand	2	2.86
10.	Switzerland	2	2.86
11.	Canada	1	1.43
12.	Ireland	1	1.43
13.	Japan	1	1.43
14.	Netherlands	1	1.43
15.	Scotland	1	1.43
16.	South Africa	1	1.43
17.	Sweden	1	1.43
Total		70	100

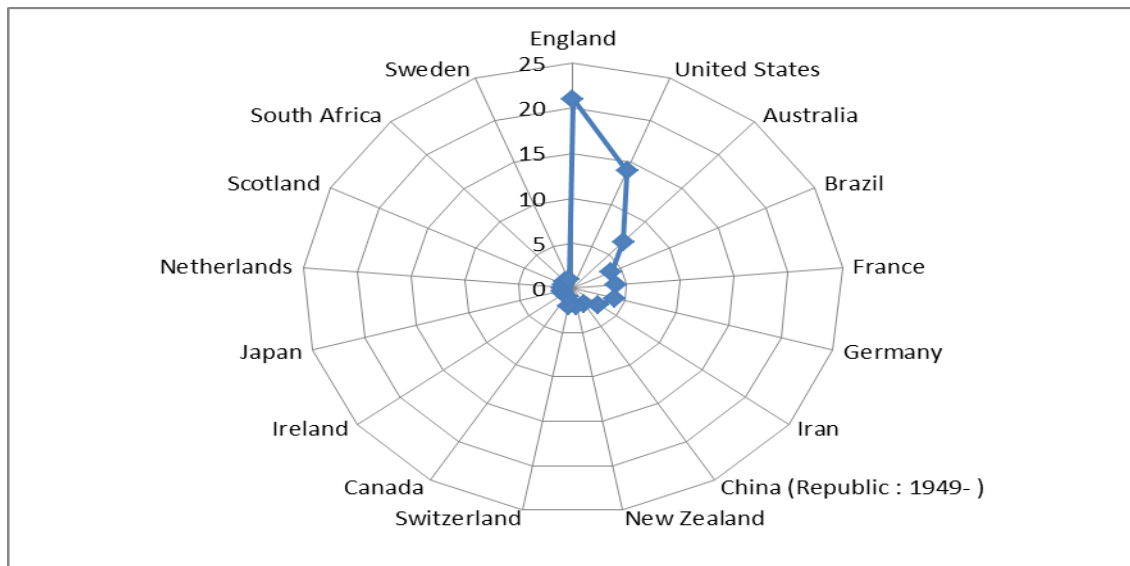


Figure-5: Country-wise coverage of Zone-2 journals in Psychiatric Nursing

COUNTRY WISE COVERAGE OF ZONE-1 & 2 JOURNALS IN PSYCHIATRIC NURSING

Table-6 shows that in zone-1 & 2 ; out of 77 journals, 24 frequently cited journals are published in England, this is followed by the countries i.e. United States (16 journals), Australia (8 journals), France (5 journals), Brazil (4 journals), Germany (4 journals), Iran (3 journals), China (Republic : 1949-) (2 journals), New Zealand (2 journals), Switzerland (2 journals), Canada (1 journal), Ireland (1 journal), Japan (1 journal), Netherlands (1 journal), Scotland (1 journal), South Africa (1 journal), and Sweden (1 journal). (Fig.-6)

Table-6: Country-wise coverage of Zone-1 & 2 journals in Psychiatric Nursing

S. No.	Country	Frequency	Percent
1.	England	24	31.17
2.	United States	16	20.78
3.	Australia	8	10.39
4.	France	5	6.49
5.	Brazil	4	5.19
6.	Germany	4	5.19
7.	Iran	3	3.90
8.	China (Republic : 1949-)	2	2.60
9.	New Zealand	2	2.60
10.	Switzerland	2	2.60
11.	Canada	1	1.30
12.	Ireland	1	1.30
13.	Japan	1	1.30
14.	Netherlands	1	1.30
15.	Scotland	1	1.30
16.	South Africa	1	1.30
17.	Sweden	1	1.30
Total		77	100

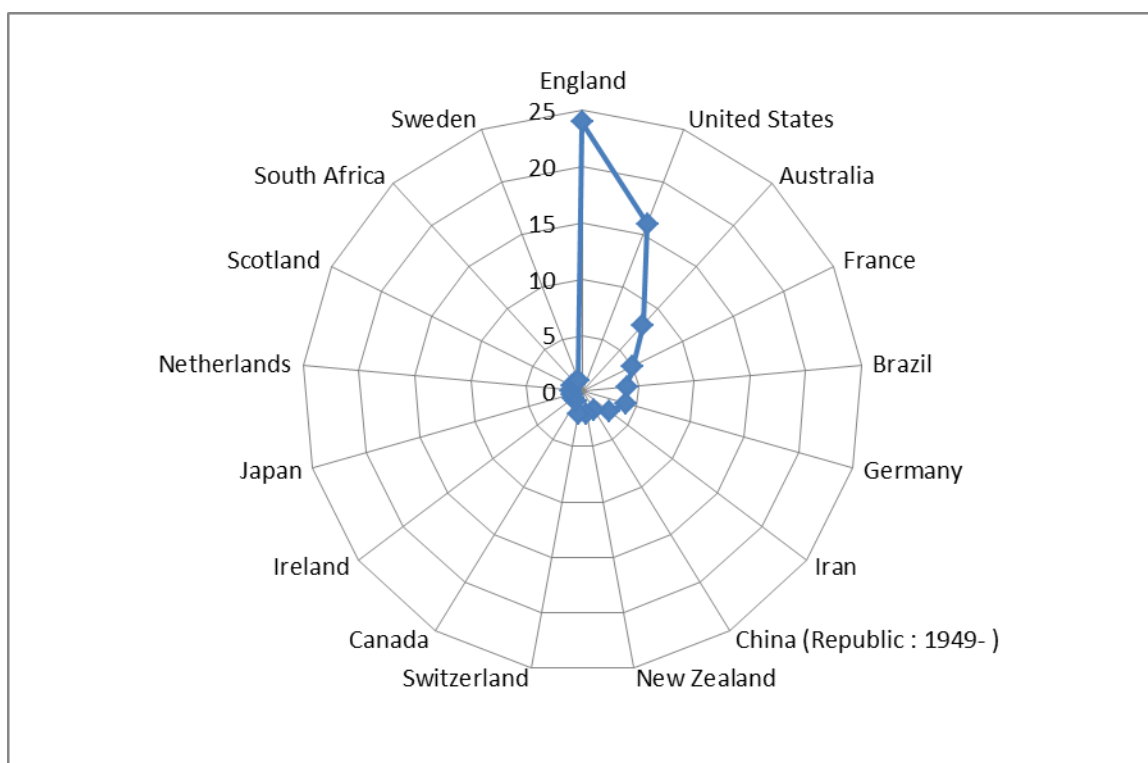


Figure-6: Country-wise coverage of Zone1 & 2 journals in Psychiatric Nursing

RANKING OF JOURNALS IN PSYCHIATRIC NURSING RESEARCH

Ranking of the journals along with the country of origin based on the research output on ‘Psychiatric Nursing’ for the year 1999-2018 is given in Table 7. The prime journals up to five ranks are mentioned below:

1. ‘Journal of Psychiatric and Mental Health Nursing’ published by England with 685 contributions amounting to 8.06% of total contributions.
2. ‘Soins. Psychiatrie’ published by France with 471 contributions amounting to 5.54%.
3. ‘Issues in Mental Health Nursing’ published by England with 433 contributions amounting to 5.10%.
4. ‘Journal of Psychosocial Nursing and Mental Health Services’ published by the United States with 376 contributions amounting to 4.42%.

5. 'International Journal of Mental Health Nursing' published by Australia with 350 contributions amounting to 4.12%.

Out of the top five ranks, England is dominating the first and third ranks, France contributes to the second position, the United States in the fourth position and fifth positions by Australia.

Table 7: Ranking of Journals in Psychiatric Nursing Research

S.No.	Name of the Journal	No. of Records	%	Country of origin
1.	Journal of Psychiatric and Mental Health Nursing	685	8.06	England
2.	Soins. Psychiatrie	471	5.54	France
3.	Issues in Mental Health Nursing	433	5.10	England
4.	Journal of Psychosocial Nursing and Mental Health Services	376	4.42	United States
5.	International Journal of Mental Health Nursing	350	4.12	Australia
6.	Archives of Psychiatric Nursing	288	3.39	United States
7.	Nursing Times	258	3.04	England
8.	Nursing Standard (Royal College of Nursing (Great Britain) : 1987)	213	2.51	England
9.	Perspectives in Psychiatric Care	196	2.31	United States
10.	Journal of Clinical Nursing	111	1.31	England
11.	Krankenpflege. Soins Infirmiers	110	1.29	Switzerland
12.	Journal of Advanced Nursing	100	1.18	England
13.	Journal of the American Psychiatric Nurses Association	100	1.18	United States
14.	Nurse Education Today	90	1.06	Scotland
15.	Journal of Child and Adolescent Psychiatric	84	0.99	England

S.No.	Name of the Journal	No. of Records	%	Country of origin
	Nursing			
16.	British Journal of Nursing (Mark Allen Publishing)	75	0.88	England
17.	Hu Li Za Zhi The Journal of Nursing	60	0.71	China (Republic : 1949-)
18.	International Journal of Community Based Nursing and Midwifery	56	0.66	Iran
19.	Iranian Journal of Nursing and Midwifery Research	52	0.61	Iran
20.	Pflege Zeitschrift	52	0.61	Germany
21.	Soins; La Revue De Reference Infirmiere	51	0.60	France
22.	International Journal of Nursing Studies	50	0.59	England
23.	Nursing New Zealand (Wellington, N.Z. : 1995)	50	0.59	New Zealand
24.	Revista Da Escola De Enfermagem Da U S P	48	0.56	Brazil
25.	Revista Latino	47	0.55	Brazil
26.	Contemporary Nurse	45	0.53	United States
27.	International Journal of Geriatric Psychiatry	45	0.53	England
28.	Revista Brasileira De Enfermagem	44	0.52	Brazil
29.	Nurse Education in Practice	42	0.49	England
30.	Australian Nursing & Midwifery Journal	41	0.48	Australia
31.	Nursing Ethics	41	0.48	England
32.	Revue De L'infirmiere	37	0.44	France
33.	Psychiatrische Praxis	36	0.42	Germany
34.	The Journal of Nursing Education	35	0.41	United States
35.	Australian Nursing Journal (July 1993)	32	0.38	Australia
36.	International Psychogeriatrics	32	0.38	England

S.No.	Name of the Journal	No. of Records	%	Country of origin
37.	Curationis	31	0.36	South Africa
38.	BMC Psychiatry	30	0.35	England
39.	Psychiatric Services (Washington, D.C.)	29	0.34	United States
40.	The International Journal of Psychiatric Nursing Research	29	0.34	England
41.	Nursing	28	0.33	United States
42.	Australasian Psychiatry: Bulletin of Royal Australian and New Zealand College of	26	0.31	England
43.	Pflege Aktuell	25	0.29	Germany
44.	Journal of Forensic Nursing	24	0.28	United States
45.	Nursing & Health Sciences	24	0.28	Australia
46.	Scandinavian Journal of Caring Sciences	24	0.28	Sweden
47.	Journal of Caring Sciences	23	0.27	Iran
48.	Psychiatry Research	23	0.27	Ireland
49.	Journal of Gerontological Nursing	22	0.26	United States
50.	Nursing Inquiry	22	0.26	Australia
51.	The Australian and New Zealand Journal of Mental Health Nursing	22	0.26	Australia
52.	Mental Health Today (Brighton, England)	21	0.25	England
53.	Nurse Educator	21	0.25	United States
54.	Plos One	21	0.25	United States
55.	Revista Gaucha De Enfermagem	21	0.25	Brazil
56.	Social Psychiatry and Psychiatric Epidemiology	21	0.25	Germany
57.	The Journal of Nursing Research : JNR	21	0.25	China (Republic : 1949-)

S.No.	Name of the Journal	No. of Records	%	Country of origin
58.	Neuropsychiatric Disease and Treatment	20	0.24	New Zealand
59.	Psychiatry and Clinical Neurosciences	20	0.24	Australia
60.	Psychogeriatrics	20	0.24	England
61.	The International Journal of Social Psychiatry	20	0.24	England
62.	Clinical Nurse Specialist CNS	19	0.22	United States
63.	International Journal of Nursing Practice	19	0.22	Australia
64.	Recherche En Soins Infirmiers	19	0.22	France
65.	Seishin Shinkeigaku Zasshi = Psychiatria Et Neurologia Japonica	19	0.22	Japan
66.	Journal of Affective Disorders	18	0.21	Netherlands
67.	Journal of Christian Nursing : A Quarterly Publication of Nurses Christian	18	0.21	United States
68.	International Nursing Review	17	0.20	England
69.	Journal of Emergency Nursing: JEN	17	0.20	United States
70.	Journal of Nursing Management	17	0.20	England
71.	Nursing Older People	17	0.20	England
72.	Soins. Gerontologie	17	0.20	France
73.	The American Journal of Nursing	17	0.20	United States
74.	The Canadian Nurse	17	0.20	Canada
75.	Aging & Mental Health	16	0.19	England
76.	BMJ Open	16	0.19	England
77.	Pflege	16	0.19	Switzerland

CONCLUSION:

In the field of nursing, the results show that Psychiatric Nursing literature is growing year after year except the year 2017. England records on Psychiatric Nursing literature covered maximum numbers followed by the United States. Further the research productivity of Psychiatric Nursing confirms the implications of Bradford's Law of Scattering.

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